

Grand WEGA™ SXRD™ Rear Projection Television

Key Features

- SXRD™ Technology
- WEGA Engine™ HD System
- Cinema Black Pro
- ATSC Integrated Tuner with CableCARD™ Slot
- HDMI™ (High Definition Multimedia Interface)
- PC Input (D-Sub 15pin)

Key Technologies

SXRD™ Panels SXRD technology is a new display technology developed by the legendary television engineers at Sony® to meet and exceed the demands of a High Definition image at its full 1080 line resolution. Digitally transmitted High Definition signals can contain over 2 million individual detail points that need to be displayed accurately and rapidly. SXRD displays those 2 million detail points per SXRD panel accurately since the 3 SXRD panels actually contain enough pixels to fully display a 1080 line picture without interlacing it.

SXRD has the speed to create a smooth, film like image. The SXRD panels have a blistering 5ms response time (total rise and fall time), which exceeds the demands of even the most rapidly moving High Definition images. And SXRD creates highly accurate, natural colors because the 3-panel design displays all the colors, all the time.

Cinema Black Pro Cinema Black Pro is an exclusive Sony function designed to improve contrast expression especially in darker scenes. The Cinema Black Pro function is enabled by using either one or both of two features - Iris Control and Advanced Iris. The Iris Control function sets the maximum size of the iris opening and sets the overall level of brightness. There are six settings that allow the user to adjust the iris opening to best match the room lighting conditions.

The Advanced Iris function is a dynamic adjustment that automatically opens and closes the iris according to the gamma level of the picture on the screen. There are four different adjustments. The "High" setting is ideal for movies and music video content. And the "Off" setting works great for sports and news content.

WEGA Engine™ HD Because of the special demands HDTV places on signal quality a new generation of Sony's exclusive WEGA Engine™ advanced picture quality system has evolved into WEGA Engine™ HD. Two innovative digital imaging processes have been added to improve overall picture quality. A High Contrast Image processor dynamically detects the histogram of each frame and instantly applies the ideal contrast level for crisper images. And the Natural High Density Picture image processor reduces noise elements by intelligently separating the noise from the video signal for a purer more detailed picture. Enjoy a stunning display of realistic images, amazing detail and sharpness, reduced noise and enhanced clarity with improved depth and contrast.



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GRAND
WEGA

KDS-R50XBR1

Grand WEGA™ SXRD™ Rear Projection Television

Features

General

Auto SAP: Yes
Channel Fix: Yes
ID1 Detection: Yes
Video Label: Yes

Video

Screen or Display Technology: SXRD™ Technology
Tuner: ATSC, 8VSB, NTSC, Clear QAM, CableCARD™ QAM
Video Signal System: ATSC, NTSC
Video Processing: Yes
Auto White Balance: Yes
Color Temperature: Cool, Neutral, Warm
Color Correction: High, Low, Off
Noise Reduction: Yes
Black Corrector: High, Medium, Low, Off
Cinema Black Pro: Yes
Clear White: On/Off
Gamma Compensation: High, Medium, Low, Off
CineMotion® Reverse 3:2 Pulldown Technology: Yes
Digital Texture Enhancer: High, Medium, Low, Off
Direct Digital II Circuitry: Yes
Advanced Iris: Yes
Wide Mode (16:9): Wide Zoom, Full, Zoom
Wide Mode (4:3): Wide Zoom, Normal, Full, Zoom
Wide Mode (PC): Normal, Full 1, Full 2
Slide Show Mode: Yes
Display Mode for PC Input: Yes
Comb Filter: 3D Digital Comb Filter
DRC® MultiFunction Circuitry: Yes (DRC-MF v2)
DRC® Mode: Mode 1, Mode 2, CineMotion® function
DRC® Palette Presets: Custom 1, Custom 2, Custom 3
Direct Mode: On/Off
Game Mode: On/Off
Game Picture: Yes
Auto Adjustment (PC): Yes
Phase (PC Only): Yes
Pitch (PC Only): Yes
Advanced Video Menu: Yes
Picture Modes: Vivid, Standard, Pro
Detail Enhancer: High, Medium, Low, Off
BN Smoother™: Yes

Audio

Tone Control(s): Treble and Bass
Sound Mode: Dynamic, Clear Voice, Natural
MTS Stereo Decoder: Yes
Digital Amplifier: S-Master™ Digital Amplifier
Audio Mute: Yes
Speaker On/Off: Yes
Simulated Surround: Yes
SRS® TruSurround® Audio Effect: Yes
Dolby® Digital: Yes

Convenience

Channel Label: Yes

Channel Skip/Add: Yes
Channel Jump: Yes
Favorite Channel: Yes
Speed Surf™ Channel Selection: Yes
Program Guide Access: Yes
Auto Channel Programming: Yes
Menu Color: Gray, Red, Green, Indigo, Purple
Multiple Language Display: English, Español, Français
Parental Control (V-Chip): Yes
Freeze Memo Screen Freeze: Yes
Info Banner: Yes
Programmable Timer: Yes
Sleep Timer: 15, 30, 45, 60, 90, Off
Timer Events: 2 Event
Caption Vision: On, Off, Program
Clock: Yes (with ON/OFF Timer)
Picture And Picture: Yes
Power Save Mode: Standard, Reduced
Built-in AC Adaptor: Yes

Specifications

General

Aspect Ratio: 16:9
Screen Size: 50"

Video

Native Resolution: 1080p
Horizontal Scan (KHz) for PC: 15 different frequencies
Display Resolution: 1920 x 1080
Overscan: Normal, +1, +2
Viewing Angle: Right/Left: 130°, Up/Down: 60°
Display Response Time: 5 ms (rise and fall)
Vertical Size: +10 to -10
Vertical Center: +63 to -64
Horizontal Center: +63 to -64
Vertical Frequency (Hz): 6 different frequencies

Audio

Speaker Type: Round
Speakers (Total): 4
Full Range Speaker Size: 3 1/4"
Audio Power Output: 30W Total (15W x 2)

Inputs and Outputs

Analog Audio Input(s): 6 (1 Front/5 Rear)
Audio Out (Variable/Fixed): 1 (Rear) - Fixed/Variable
CableCARD™ Slot: Yes
Component Video (Y/Pb/Pr) Input(s): 2 (Rear)
Composite Video Input(s): 3 (1 Front/2 Rear)
Control-S Input(s): 1 (Rear)
Control-S Output(s): 1 (Rear)
Digital Audio Output(s): 1 (Rear: PCM/ Dolby® Digital (Optical))
HDMI™ Connection Input(s): 2 (Rear: 1 with Audio Inputs, 1 without Audio Inputs)
i.LINK® Connection: 3 (1 Front/2 Rear)
Memory Stick® Media Slot: 1 (1 Front)
RF Connection Input(s): 2 (Rear)

S-Video Input(s): 3 (1 Front/2 Rear; Auto Detect on Video 1 only)
PC Audio Input(s): 1 (Rear)
PC Video Input(s): 1 (Rear)

Power

Internal Power Supply: Yes
Power Consumption (in Operation): 240W
Power Consumption (in Standby): 0.5W
Power Requirements: AC 120, 60Hz
Power Management: Yes
Power Consumption (CableCARD™ Function in Standby): Less than 30W (Also applies to i.LINK port.)

Service and Warranty Information

Limited Warranty: 1 Year Parts and Labor

Dimensions

Weight: 94 lbs 13 oz (43 kg)
Measurements: 57-1/4" x 34" x 18 7/8" (1453 x 863 x 478 mm)

Supplied Accessories

Remote Control (RM-Y914)
Operating Instructions
Quick Start Guide
Batteries (AAA x2)
Warranty
Product Registration Card

Optional Accessories

SU-GW12 (AV Stand)
XL-5100 (120W Replacement Lamp)

UPC Code: 027242681101

Confidential Sony Information. For Internal Use Only.

1. Screen Size measured diagonally
2. For additional viewing angle information please consult the Owner's Manual.

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